

Sterne Kessler  
Goldstein Fox

H GP/1645

TO: Commissioner for Patents  
U.S. Patent & Trademark Office  
Washington, D.C. 20231

FROM: Mr. Renner  
1700.0190005/JAG/BJD/SJE

SUBJECT: U.S. Utility Patent Application  
Appl. No. 10/050,898; Filed: January 18, 2002  
For: **Molecular Antigen Array**

RE: U.S. Utility Patent Application  
Appl. No. 10/050,898; Filed: January 18, 2002  
For: **Molecular Antigen Array**  
Inventors: Renner *et al.*  
Our Ref: 1700.0190005/JAG/BJD/SJE

November 27, 2002

WRITER'S DIRECT NUMBER:  
(202) 789-5525  
INTERNET ADDRESS:  
BRIAND@SKGF.COM

Commissioner for Patents  
Washington, D.C. 20231

Art Unit 1645

Re: U.S. Utility Patent Application  
Appl. No. 10/050,898; Filed: January 18, 2002  
For: **Molecular Antigen Array**  
Inventors: Renner *et al.*  
Our Ref: 1700.0190005/JAG/BJD/SJE

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Second Supplemental Information Disclosure Statement;
2. Form PTO-1449 listing the cited documents (seventy-eight (78) pages);
3. Copies of the cited documents; and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents  
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Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

JAG/BJD/SJE:krh

Enclosures

SKGF\_DC1:79264.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RENNER *et al.*

Appl. No. 10/050,898

Filed: January 18, 2002

For: **Molecular Antigen Array**

Confirmation No. 7794

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1700.0190005/JAG/BJD/SJE

**Second Supplemental Information Disclosure Statement**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. This Information Disclosure Statement is supplemental to Information Disclosure Statements that were electronically filed on **November 20, 2002** and **November 26, 2002**. A copy of each document is also provided.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regards to non-English language document AT37 cited on Form PTO 1449:

Documents **AT37**, Kozlovskaya, T.M., *et al.*, "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," *Dokl. Akad. Nauk. SSSR* 287:452-455, (1986) is in the Russian language. An English language abstract is attached as Document **AR38**.

The Examiner is referred to the following related, co-pending patent applications:

U.S. Patent Application No. 09/449,631, filed November 30, 1999, inventors Renner *et al.*, submitted herewith as **AR77**;

U.S. Patent Application No. 10/050,902, filed January 18, 2002, inventors Renner *et al.*, submitted herewith as **AS77**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the

effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

Date: Nov. 27, 2002

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FORM PTO-1449

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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL1	WI 92,11091 A1	07/09/1992	WIPO			Yes No
	AM1	WI 96,30523 A2	10/03/1996	WIPO			Yes No
	AN1	WO 97,31948 A1	09/04/1997	WIPO			Yes No
	AO1	WI 98,15631 A1	04/16/1998	WIPO			Yes No
	AP1	WO 00/32227 A2	06/08/2000	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	<u>1</u>	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:5724-5727, National Academy Press (1985)
	AS	<u>1</u>	Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of <i>Escherichia coli</i> Type 1 Fimbriae," <i>J. Bacteriol.</i> 174:5145-5148, American Society for Microbiology (1992)
	AT	<u>1</u>	Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Resolves the Discrepancy between Serological and Biophysical Classification," <i>Virology</i> 170:238-242, Academic Press, Inc. (1989)

EXAMINER

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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190005/JAG/BJD/SJE	APPLICATION NO. 10/050,898
	APPLICANT RENNER et al.	
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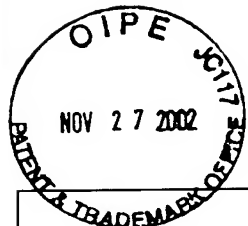
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	AL2	WO 00/59928 A1	10/12/2000	WIPO			Yes No
	AM2	WO 00/23955 A1	04/27/2000	WIPO			Yes No
	AN2	WO 01/62284 A2	08/30/2001	WIPO			Yes No
	AO2	WO 01/85208 A2	11/15/2001	WIPO			Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Aguzzi, A., "Prion diseases, blood and the immune system: concerns and reality," <i>Haematologica</i> 85:3-10, Il Pensiero Scientifico Editore (January 2000)
AS	2	Ansel, K.M., et al., "In Vivo-activated CD4 T Cells Upregulate CXC Chemokine Receptor 5 and Reprogram Their Response to Lymphoid Chemokines," <i>J. Exp. Med.</i> 190:1123-1134, The Rockefeller University Press (1999)
AT	2	Ansel, K.M., et al., "A chemokine-driven positive feedback loop organizes lymphoid follicles," <i>Nature</i> 406:309-314, Nature Publishing Group (July 2000)

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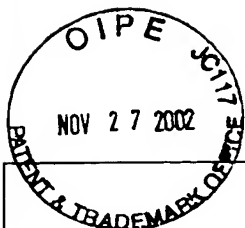
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	<u>3</u>	Antonyssamy, M.A., <i>et al.</i> , "Evidence for a Role of IL-17 in Organ Allograft Rejection: IL-17 Promotes the Functional Differentiation of Endritic Cell Progenitors," <i>J. Immunol.</i> 162:577-584, The American Association of Immunologists (1999)
	AS	<u>3</u>	Arenberg, D.A., <i>et al.</i> , "The murine CC chemokine, 6C-kine, inhibits tumor growth and angiogenesis in a human lung cancer SCID mouse model," <i>Cancer Immunol. Immunother.</i> 49:587-592, Springer-Verlag (January 2001)
	AT	<u>3</u>	Arnon, R., <i>et al.</i> , "A mimotope peptide-based vaccine against <i>Schistosoma mansoni</i> : synthesis and characterization," <i>Immunology</i> 101:555-562, Blackwell Science, Ltd. (December 2000)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Bachmann, M.F., and Zinkernagel, R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
	AS	<u>4</u>	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
	AT	<u>4</u>	Bachmann, M.F., et al., "TRANCE, a Tumor Necrosis Factor Family Member Critical for CD40 Ligand-independent T Helper Cell Activation," <i>J. Exp. Med.</i> 189:1025-1031, The Rockefeller University Press (1999)

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	AR	<u>5</u>	Banerjee, R.R., and Lazar, M.A., "Dimerization of Resistin and Resistin-like Molecules Is Determined by a Single Cysteine," <i>J. Biol. Chem.</i> 276:25970-25973, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)
	AS	<u>5</u>	Bard, F. <i>et al.</i> , "Peripherally administered antibodies against amyloid $\beta$ -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature Publishing Company (August 2000)
	AT	<u>5</u>	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in <i>Protein Function: A Practical Approach</i> , 2nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	<u>6</u>	Bernhagen, J., <i>et al.</i> , "Purification, Bioactivity, and Secondary Structure Analysis of Mouse and Human Macrophage Migration Inhibitory Factor (MIF)," <i>Biochemistry</i> 33:14144-14155, American Chemical Society (1994)
	AS	<u>6</u>	Biaselle, C.J., and Millar, D.B., "Studies on Triton X-100 detergent micelles," <i>Biophys. Chem.</i> 3:355-361, North-Holland Publishing Company (1975)
	AT	<u>5</u>	Bleul, C.C., <i>et al.</i> , "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry," <i>Nature</i> 382:829-833, Nature Publishing Group (1996)

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	AR	7	Blomfield, I.C., <i>et al.</i> , "Type 1 Fimbriation and <i>fimE</i> Mutants of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 173:5298-5307, American Society for Microbiology (1991)
	AS	7	Blomfield, I.C., <i>et al.</i> , "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 23:705-717, Blackwell Science, Ltd. (1997)
	AT	7	Boder, E.T., and Wittrup, K.D., "Yeast Surface Display for Directed Evolution of Protein Expression, Affinity, and Stability," <i>Methods Enzymol.</i> 328:430-444, Academic Press (October 2000)

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	AR	8	Bonci, A., et al., "Relatedness and Phylogeny Within the Family of Periplasmic Chaperones Involved in the Assembly of Pili or Capsule-Like Structures of Gram-Negative Bacteria," <i>J. Mol. Evol.</i> 44:299-309, Springer-Verlag (1997)
	AS	8	Brandner, S., et al., "A crucial role for B cells in neuroinvasive scrapie," <i>Transfus. Clin. Biol.</i> 6:17-23, Elsevier, Paris (1999)
	AT	8	Erinton, Jr., C.C., "The structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," <i>Trans. N.Y. Acad. Sci.</i> 27:1003-1054, New York Academy of Sciences (1965)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	<u>2</u>	Brown, K.D., <i>et al.</i> , "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," <i>J. Immunol.</i> 142:679-687, The American Association of Immunologists (1989)
	AS	<u>2</u>	Brown, P.M., <i>et al.</i> , "A Single-Step Purification of Biologically Active Recombinant Human Interleukin-5 from a Baculovirus Expression System," <i>Protein Expr. Purif.</i> 6:63-71, Academic Press, Inc. (1995)
	AT	<u>2</u>	Brown, K.L., <i>et al.</i> , "Scrapie replication in lymphoid tissues depends on prion protein-expressing follicular dendritic cells," <i>Nat. Med.</i> 11:1308-1312, Nature Publishing Company (1999)

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	AF	<u>10</u>	Eullitt, E., <i>et al.</i> , "Development of pilus organelle subassemblies <i>in vitro</i> depends on chaperone uncapping of a beta zipper," <i>Proc. Natl. Acad. Sci. USA</i> 93:12890-12895, National Academy Press (1996)
	AS	<u>10</u>	Eullitt, E., and Makowski, L., "Bacterial Adhesion Pili Are Heterologous Assemblies of Similar Subunits," <i>Biophys. J.</i> 74:623-632, Biophysical Society (1998)
	AT	<u>10</u>	Burger, J.A., <i>et al.</i> , "Blood-derived nurse-like cells protect chronic lymphocytic leukemia B cells from spontaneous apoptosis through stromal cell-derived factor-1," <i>Blood</i> 96:2655-2663, The American Society of Hematology (October 2000)

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	AF	11	Burghoff, R.L., et al., "Utilization of the Mouse Large Intestine To Select an <i>Escherichia coli</i> F-18 DNA Sequence That Enhances Colonizing Ability and Stimulates Synthesis of Type 1 Fimbriae," <i>Infect. Immun.</i> 61:1293-1300, American Society for Microbiology (1993)
	AS	11	Cannon-Carlson S., et al., "Expression, Purification, and Characterization of Recombinant Human Interleukin-13 from NS-0 Cells," <i>Protein Expr. Purif.</i> 12:239-248, Academic Press (1998)
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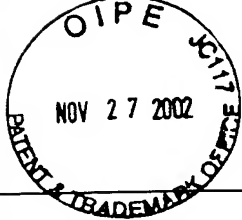
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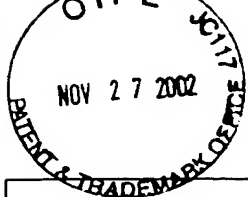
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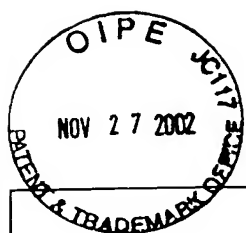
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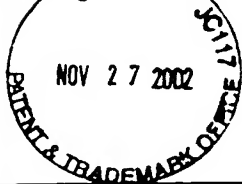
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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190005/JAG/BJD/SJE	APPLICATION NO. 10/050,898
	APPLICANT RENNER et al.	
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	AF	<u>25</u>	Heveker, N., et al., Dissociation of the signalling and antiviral properties of SCF-1-derived small peptides," <i>Curr. Biol.</i> 8:369-376, Current Biology, Ltd. (1998)
	AS	<u>25</u>	Hirel, P.-H., et al., "Extent of N-terminal methionine excision from <i>Escherichia coli</i> proteins is governed by the side-chain length of the penultimate amino acid," <i>Proc. Natl. Acad. Sci. USA</i> 86:8247-8251, National Academy Press (1989)
	AT	<u>25</u>	Holmes, W.D., et al., "Solution Studies of Recombinant Human Stromal-Cell-Derived Factor-1," <i>Prot. Expr. Purif.</i> 21:367-377, Academic Press (April 2001)

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	AR	<u>26</u>	Holmgren, A., <i>et al.</i> , "Conserved immunoglobulin-like features in a family of periplasmic pilus chaperones in bacteria," <i>EMBO J.</i> 11:1617-1622, Oxford University Press (1992)
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	AR	<u>27</u>	Hultgren, S.J., <i>et al.</i> , "PapD and superfamily of periplasmic immunoglobulin-like pilus chaperones," <i>Adv. Prot. Chem.</i> 44:99-123, Academic Press, Inc. (1993)
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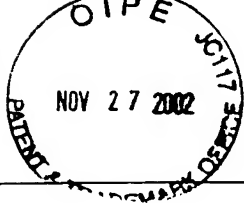
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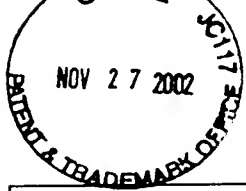
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	AP	29	Ikeda, T., <i>et al.</i> , "Determination of Three Isoforms of the Receptor Activator of Nuclear Factor- $\kappa$ B Ligand and Their Differential Expression in Bone and Thymus," <i>Endocrinology</i> 142:1419-1426, The Endocrine Society (April 2001)
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	<u>30</u>	Jacob-Dubuisson, F., <i>et al.</i> , "Initiation of assembly and association of the structural elements of a bacterial pilus depend on two specialized tip proteins," <i>EMBO J.</i> 12:837-847, Oxford University Press (1993)
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	AT	<u>30</u>	Jiang, X., <i>et al.</i> , "Norwalk Virus Genome Cloning and Characterization," <i>Science</i> 250:1580-1583, American Association for the Advancement of Science (1990)

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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1645

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AP	31	Jones, C.H., et al., "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in bacteria," <i>Proc. Natl. Acad. Sci. USA</i> 90:8397-8401, National Academy Press (1993)
	AS	31	Jones, C.H., et al., "FimH adhesin of type 1 pili is assembled into a fibrillar tip structure in the Enterobacteriaceae," <i>Proc. Natl. Acad. Sci. USA</i> 92:2081-2085, National Academy Press (1995)
	AT	31	Josien, R., et al., "TRANCE, a Tumor Necrosis Factor Family Member, Enhances the Longevity and Adjuvant Properties of Dendritic Cells In Vivo," <i>J. Exp. Med.</i> 191: 495-501, The Rockefeller University Press (February 2000)

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1700.01900C5/JAG/BJD/SJEAPPLICATION NO.  
10/050,898APPLICANT  
RENNER *et al.*FILING DATE  
January 18, 2002GROUP  
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## U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>32</u>	Jovanovic, D.V., <i>et al.</i> , "IL-17 Stimulates the Production and Expression of Proinflammatory Cytokines, IL- $\beta$ and TNF- $\alpha$ , by Human Macrophages," <i>J. Immunol.</i> 162:3513-3521, The American Association of Immunologists (1998)
	AS	<u>32</u>	Fapp, U., <i>et al.</i> , "Interleukin 13 Is Secreted by and Stimulates the Growth of Hodgkin and Reed-Sternberg Cells," <i>J. Exp. Med.</i> 189:1939-1945, The Rockefeller University Press (1999)
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>33</u>	Fim, K.J., <i>et al.</i> , "Inhibition of vascular endothelial growth factor-induced angiogenesis suppresses tumour growth <i>in vivo</i> ," <i>Nature</i> 362:841-844, Nature Publishing Group (1993)
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	AT	<u>33</u>	Klemm, P., "The <i>fimA</i> gene encoding the type-1 fimbrial subunit of <i>Escherichia coli</i> . Nucleotide sequence and primary structure of the protein," <i>Euro. J. Biochem.</i> 143:395-399, Blackwell Science, Ltd. (1984)

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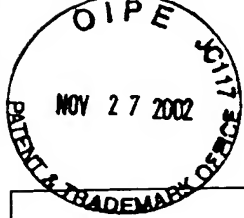
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	AF	35	Klemm, P., "FimC, a chaperone-like periplasmic protein of <i>Escherichia coli</i> involved in biogenesis of type 1 fimbriae," <i>Res. Microbiol.</i> 143:831-838, Institut Pasteur/Elsevier (1992)
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	AT	35	Kodama, S., et al., "Characterization of recombinant murine interleukin 5 expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 2:419-427, Oxford University Press (1992)

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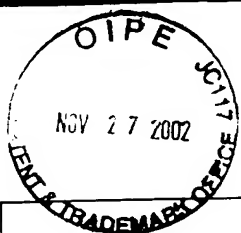
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	AF	<u>36</u>	Kodama, S., <i>et al.</i> , "Carbohydrate Structures of Human Interleukin 5 Expressed in Chinese Hamster Ovary Cells," <i>J. Biochem. (Tokyo)</i> 110:693-701, Japanese Biochemical Society (1991)
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	AP						Yes No

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	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 18, 2002	GROUP 1545

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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OTHER (including Author, Title, Date, Accession No., etc.)			
	AF	<u>38</u>	Kozlovskaya, T.M., et al., "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," STNEasy, Accession No. 1986:219892, CPlus English abstract (1986) (Document AT37)
	AS	<u>38</u>	Krogfelt, K.A., et al., "Direct Evidence that the FimH Protein Is the Mannose-Specific Adhesin of <i>Escherichia coli</i> Type 1 Fimbriae," <i>Infect. Immun.</i> 58:1995-1998, American Society for Microbiology (1990)
	AT	<u>38</u>	Kuehn, M.J., et al., "Structural Basis of Pilus Subunit Recognition by the PapD Chaperone," <i>Science</i> 262:1234-1241, American Association for the Advancement of Science (1993)
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	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 18, 2002	GROUP 1645

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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	AF	39	Funimoto, D.Y., <i>et al.</i> , "High-level production of murine interleukin-5 (IL-5) utilizing recombinant baculovirus expression. Purification of the rIL-5 and its use in assessing the biologic role of IL-5 glycosylation," <i>Cytokine</i> 3:224-230, W.B. Saunders Company (1991)
	AS	39	Landschulz, W.H., <i>et al.</i> , "The Leucine Zipper: A Hypothetical Structure Common to a New Class of DNA Binding Proteins," <i>Science</i> 240:1759-1764, American Association for the Advancement of Science (1988)
	AT	39	Leake, C.J., <i>et al.</i> , "Cytopathic Effect and Plaque Formation by Arboviruses in a Continuous Cell Line (XTC-2) from the Toad <i>Xenopus laevis</i> ," <i>J. gen. Virol.</i> 35:335-339, Cambridge University Press (1977)

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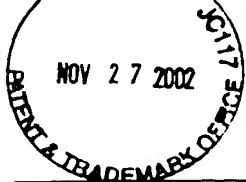
	AF	40	Lee, K.H., <i>et al.</i> , "Two-Dimensional Electrophoresis of Proteins as a Tool in the Metabolic Engineering of Cell Cycle Regulation," <i>Biotech. Bioeng.</i> 50:336-340, John Wiley & Sons, Inc. (1996)
	AS	40	Leech, M., <i>et al.</i> , "Involvement of macrophage migration inhibitory factor in the evolution of rat adjuvant arthritis," <i>Arthritis Rheum.</i> 41:910-917, Arthritis Foundation (1998)
	AT	40	Leech, M., <i>et al.</i> "Regulation of macrophage migration inhibitory factor by endogenous glucocorticoid in rat adjuvant-induced arthritis," <i>Arthritis Rheum.</i> 43:827-833, Arthritis Foundation (April 2000)

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FORM PTO-1449  <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190005/JAG/BJD/SJE	APPLICATION NO. 10'050,89E
	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 18, 2002	GROUP 1645

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

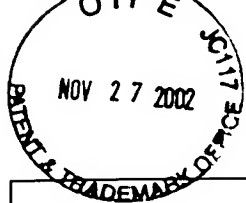
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	<u>41</u>	Liljeström, P., and Garoff, H., "A new generation of animal cell expression vectors based on the semliki forest virus replicon," <i>Bio/technology</i> 9:1356-1361, Nature Publishing Company (1991)
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	AT	<u>41</u>	Lim, F., et al., "The RNA-binding Site of Bacteriophage Q $\beta$ Coat Protein," <i>J. Biol. Chem.</i> 271:31839-31845, The American Society for Biochemistry and Molecular Biology, Inc. (1996)

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190005/JAG/BJD/SJEAPPLICATION NO.  
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	AM						Yes No
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	AR	<u>42</u>	Lin, E.Y., et al., "Colony-stimulating Factor 1 Promotes Progression of Mammary Tumors to Malignancy," <i>J. Exp. Med.</i> 193:727-739, The Rockefeller University Press (March 2001)
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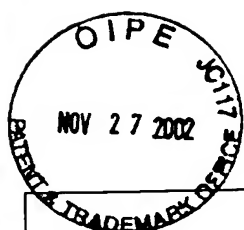
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	AS	<u>43</u>	Lowe, M.A., <i>et al.</i> , "Immunoelectron Microscopic Analysis of Elongation of Type 1 Fimbriae in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 169:157-163, American Society for Microbiology (1987)
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	AR	<u>44</u>	Lum, L., <i>et al.</i> , "Evidence for a Role of a Tumor Necrosis Factor- $\alpha$ (TNF- $\alpha$ )-converting Enzyme-like Protease in Shedding of TRANCE, a TNF Family Member Involved in Osteoclastogenesis and Dendritic Cell Survival," <i>J. Biol. Chem.</i> 274:13613-13618, The American Society for Biochemistry and Molecular Biology, Inc. (1999).
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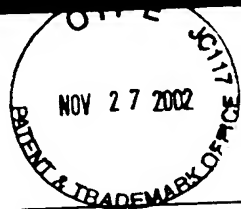
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	AR	<u>45</u>	Mackay, J.L., and Browning, J.L., "Turning off follicular dendritic cells," <i>Nature</i> 395:26-27, Macmillan Magazines, Ltd. (1998)
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	AT	<u>45</u>	Matsui, S.M., et al., "The Isolation and Characterization of a Norwalk Virus-Specific cDNA," <i>J. Clin. Invest.</i> 87:1456-1461, The American Society for Clinical Investigation, Inc. (1991)

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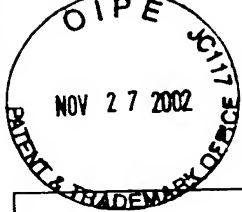
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	AR	46	Matsumoto, M., et al., "Role of Lymphotoxin and the Type 1 TNF Receptor in the Formation of Germinal Centers," <i>Science</i> 271:1289-1291, American Association for the Advancement of Science (1996)
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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1545

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	47	Mayer, K.L., and Stone, M.J., "NMR Solution Structure and Receptor Peptide Binding of the CC Chemokine Eotaxin-2," <i>Biochemistry</i> 39:8382-8395, American Chemical Society (July 2000)
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	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 13, 2002	GROUP 1645

## U.S. PATENT DOCUMENTS

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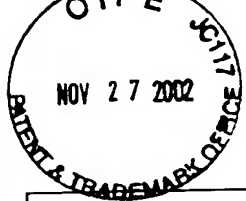
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>48</u>	Mikulowska, A., <i>et al.</i> , "Macrophage Migration Inhibitory Factor Is Involved in the Pathogenesis of Collagen Type II-Induced Arthritis in Mice," <i>J. Immunol.</i> 158:5514-5517, The American Association of Immunologists (1997)
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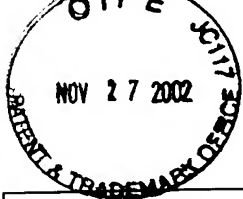
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AT	<u>50</u>	Murphy, K.P. Jr., <i>et al.</i> , "Expression of Human Interleukin-17 in <i>Pichia pastoris</i> : Purification and Characterization," <i>Protein Expr. Purif.</i> 12:208-214, Academic Press (1998)

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FORM PTC-1449

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AF	<u>51</u>	Nagira, M., <i>et al.</i> , "Molecular Cloning of a Novel Human CC Chemokine Secondary Lymphoid-Tissue Chemokine That Is a Potent Chemoattractant for Lymphocytes and Mapped to Chromosome 9p13," <i>J. Biol. Chem.</i> 272:19518-19524, The American Society for Biochemistry and Molecular Biology, Inc. (1997)
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	AR	<u>52</u>	Neirynck, S., <i>et al.</i> , "A universal influenza A vaccine based on the extracellular domain of the M2 protein," <i>Nat. Med.</i> 5:1157-1163, Nature Publishing Company (1999)
	AS	<u>52</u>	Newman, J.V., <i>et al.</i> , "Stimulation of <i>Escherichia coli</i> F-18Col <sup>-</sup> Type-1 fimbriae synthesis by <i>leuX</i> ," <i>FEMS Microbiol. Lett.</i> 122:281-287, Elsevier (1994)
	AT	<u>52</u>	Ni, C.-Z., <i>et al.</i> , "Crystal structure of the coat protein from the GA bacteriophage: Model of the unassembled dimer," <i>Protein Sci.</i> 5:2485-2493, Cambridge University Press (1996)

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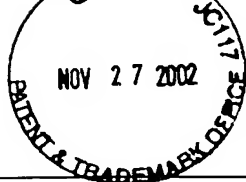
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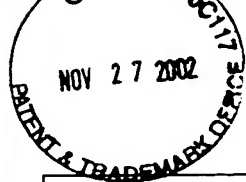
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	AF	<u>55</u>	O'Shea, E.K., <i>et al.</i> , "Evidence That the Leucine Zipper Is a Coiled Coil," <i>Science</i> 243:538-542, American Association for the Advancement of Science (1989)
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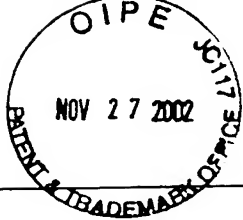
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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190005/JAG/BJD/SJE	APPLICATION NO. 10/050,898
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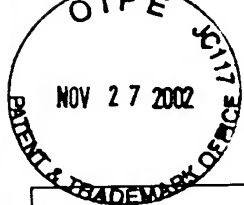
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	AF	<u>61</u>	Russell, P.W., and Orndorff, P.E., "Lesions in Two <i>Escherichia coli</i> Type 1 Pilus Genes Alter Pilus Number and Length without Affecting Receptor Binding," <i>J. Bacteriol.</i> 174:5923-5935, American Society for Microbiology (1992)
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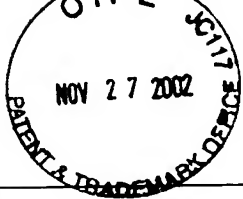
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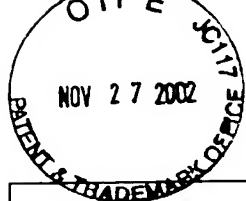
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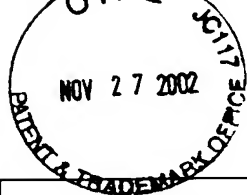
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	AP						Yes No

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	AP	<u>66</u>	Sturchler-Pierrat, C., <i>et al.</i> , "Two amyloid precursor protein transgenic mouse models with Alzheimer disease-like pathology," <i>Proc. Natl. Acad. Sci. USA</i> 94:13287-13292, National Academy Press (1997)
	AS	<u>65</u>	Sun, H.-W., <i>et al.</i> , "Crystal structure at the 2.6-Å resolution of human macrophage migration inhibitory factor," <i>Proc. Natl. Acad. Sci. USA</i> 93:5191-5196, National Academy Press (1996)
	AT	<u>66</u>	Tang, J.-L., <i>et al.</i> , "Interleukin-17 antagonism inhibits acute but not chronic vascular rejection," <i>Transplantation</i> 72:348-350, Lippincott Williams & Wilkins (July 2001)

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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190005/JA3/BJD/SJE	APPLICATION NO. 10/050,898
	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 18, 2002	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	<u>67</u>	Tanimori, H., <i>et al.</i> , "Enzyme immunoassay of neocarzinostatin using $\beta$ -galactosidase as label," <i>J. Pharm. Dyn.</i> 4:812-819, Pharmaceutical Society of Japan (1981)
	AS	<u>67</u>	Teixeira, M.M., <i>et al.</i> , "Chemokine-induced Eosinophil Recruitment. Evidence of a Role for Endogenous Eotaxin in an In Vivo Allergy Model in Mouse Skin," <i>J. Clin. Invest.</i> 100:1657-1666, The American Society for Clinical Investigation, Inc. (1997)
	AT	<u>67</u>	Tewari, R., <i>et al.</i> , "Neutrophil Activation by Nascent FimH Subunits of Type I Fimbriae Purified from the Periplasm of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 268:3009-3015, The American Society for Biochemistry and Molecular Biology, Inc. (1993)

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	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 18, 2002	GROUP 1645

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>68</u>	Teunissen, M.B.M., <i>et al.</i> , "Interleukin-17 and Interferon- $\gamma$ Synergize in the Enhancement of Proinflammatory Cytokine Production by Human Keratinocytes," <i>J. Invest. Dermatol.</i> 111:645-649, The Society for Investigative Dermatology, Inc. (1998)
	AS	<u>68</u>	Thanassi, D.G., <i>et al.</i> , "The PapC usher forms an oligomeric channel: Implications for pilus biogenesis across the outer membrane," <i>Proc. Natl. Acad. Sci. USA</i> 95:3146-3151, National Academy Press (1998)
	AT	<u>68</u>	De Togni, P., <i>et al.</i> , "Abnormal Development of Peripheral Lymphoid Organs in Mice Deficient in Lymphotoxin," <i>Science</i> 264:703-707, American Association for the Advancement of Science (1994)

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	AP						Yes No

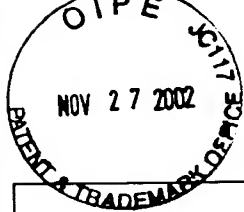
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>69</u>	Topchieva, I., and Karezin, K., "Self-Assembled Supramolecular Micellar Structures Based on Non-ionic Surfactants and Cyclodextrins," <i>J. Colloid Interface Sci.</i> 213:29-35, Academic Press (1999)
	AS	<u>69</u>	Twomey, T., et al., "Structure and immunogenicity of experimental foot-and-mouth disease and poliomyelitis vaccines," <i>Vaccine</i> 13:1603-1610, Elsevier Science, Ltd. (1995)
	AT	<u>69</u>	Ulrich, R., et al., "Core particles of hepatitis B virus as carrier for foreign epitopes," <i>Adv. Virus Res.</i> 50:141-182, Academic Press (1998)

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	APPLICANT RENNER <i>et al.</i>	
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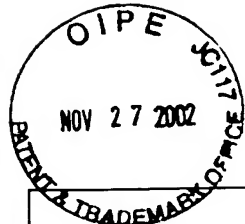
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AF	70	Vicari, A.P., <i>et al.</i> , "Antitumor Effects of the Mouse Chemokine 6Ckine/SLC Through Angiostatic and Immunological Mechanisms," <i>J. Immunol.</i> 165:1992-2000, The American Association of Immunologists (August 2000)
	AS	70	Visintin, M. <i>et al.</i> , "Selection of antibodies for intracellular function using a two-hybrid <i>in vivo</i> system," <i>Proc. Natl. Acad. Sci. USA</i> 96:11723-11728, National Academy Press (1999)
	AT	70	Walse, B., <i>et al.</i> , "Transferred nuclear Overhauser effect spectroscopy study of a peptide from the PapG pilus subunit bound by the <i>Escherichia coli</i> PapD chaperone," <i>FEBS Lett.</i> 412:115-120, Elsevier Science B.V. (1997)

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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1645

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AP	71	Warnes, A., et al., "Expression of the measles virus nucleoprotein gene in <i>Escherichia coli</i> and assembly of nucleocapsid-like structures," <i>Gene</i> 160:173-178, Elsevier Science B.V. (1995)
	AS	71	Watson, E., et al., "Structure determination of the intact major sialylated oligosaccharide chains of recombinant human erythropoietin expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 4:227-237, Oxford University Press (1994)
	AT	71	Wei, Y.Q., et al., "Immunotherapy of tumors with xenogeneic endothelial cells as a vaccine," <i>Nat. Med.</i> 6:1160-1166, Nature Publishing Company (October 2000)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	72	Witherell, G.W., and Uhlenbeck, D.C., "Specific RNA Binding by Q $\beta$ Coat Protein," <i>Biochemistry</i> 28:71-76, American Chemical Society (1989)
	AS	72	Wong, C.K., <i>et al.</i> , "Elevation of proinflammatory cytokine (IL-18, IL-17, IL-12) and Th2 cytokine (IL-4) concentrations in patients with systemic lupus erythematosus," <i>Lupus</i> 9:539-593, Macmillan Publishers Ltd. (2000)
	AT	72	Wu, Q., <i>et al.</i> "Reversal of Spontaneous Autoimmune Insulinitis in Nonobese Diabetic Mice by Soluble Lymphotoxin Receptor," <i>J. Exp. Med.</i> 193:1327-1332, The Rockefeller University Press (June 2001)

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FORM PTC-1449

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>73</u>	Wuttke, M., et al., "Structural Characterization of Human Recombinant and Bone-derived Bone Sialoprotein," <i>J. Biol. Chem.</i> 276:36839-36848, The American Society for Biochemistry and Molecular Biology, Inc. (2001)
	AS	<u>73</u>	Wynne, S.A., et al., "The Crystal Structure of the Human Hepatitis B Virus Capsid," <i>Mol. Cell</i> 3:771-780, Cell Press (1999)
	AT	<u>73</u>	Xiong, C., et al., "Sindbis Virus: An Efficient, Broad Host Range Vector for Gene Expression in Animal Cells," <i>Science</i> 243:1186-1191, American Association for the Advancement of Science (1989)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>74</u>	Yao, Z., <i>et al.</i> , "Human IL-17: A Novel Cytokine Derived from T Cells," <i>J. Immunol.</i> 155:5483-5486, The American Association of Immunologists (1995)
	AS	<u>74</u>	Yao, Z., <i>et al.</i> , "Molecular characterization of the human interleukin (IL)-17 receptor," <i>Cytokine</i> 9:794-800, Academic Press, Ltd. (1997)
	AT	<u>74</u>	Yone, K., <i>et al.</i> , "Epitopic Regions for Antibodies against Tumor Necrosis Factor $\alpha$ ," <i>J. Biol. Chem.</i> 270:19509-19515, The American Society for Biochemistry and Molecular Biology, Inc. (1995)

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	AP						Yes No

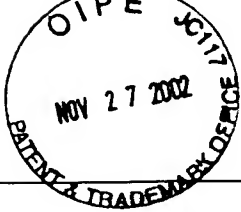
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>75</u>	Yuan, T-T., <i>et al.</i> , "Subtype-Independent Immature Secretion and Subtype-Dependent Replication Deficiency of a Highly Frequent, Naturally Occurring Mutation of Human Hepatitis B Virus Core Antigen," <i>J. Virol.</i> 73:10122-10128, American Society for Microbiology (1999)
	AS	<u>75</u>	Sang, M., <i>et al.</i> , "Production of Recombinant Proteins in Chinese Hamster Ovary Cells Using A Protein-Free Cell Culture Medium," <i>Bio/Technology</i> 13:389-392, Nature Publishing Company (1995)
	AT	<u>75</u>	Zhou, S., and Standring, D.N., "Cys Residues of the Hepatitis B Virus Capsid Protein Are Not Essential for the Assembly of Viral Core Particles but Can Influence Their Stability," <i>J. Virol.</i> 66:5393-5398, American Society for Microbiology (1992)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	76	Zimmermann, N., <i>et al.</i> , "Murine Eotaxin-2: A Constitutive Eosinophil Chemokine Induced by Allergen Challenge and IL-4 Overexpression," <i>J. Immunol.</i> 165:5839-5846, The American Association of Immunologists (November 2000)
	AS	76	Ziolkowska, M., <i>et al.</i> , "High Levels of IL-17 in Rheumatoid Arthritis Patients: IL-15 Triggers In Vitro IL-17 Production Via Cyclosporin A-Sensitive Mechanism," <i>J. Immunol.</i> 164:2832-2838, The American Association of Immunologists (March 2000)
	AT	76	Zuercher, A.W., <i>et al.</i> , "Oral anti-IgE immunization with epitope-displaying phage," <i>Eur. J. Immunol.</i> 30:128-135, Wiley-Vch Verlag GmbH (January 2000)

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	<u>77</u>	Copy of co-pending U.S. Application No. 09/449,631, inventors Renner <i>et al.</i> , filed November 30, 1999.
	AS	<u>77</u>	Copy of co-pending U.S. Application No. 10/050,902, inventors Renner <i>et al.</i> , filed January 18, 2002.
	AT	<u>77</u>	Fehr, T., <i>et al.</i> , "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles," <i>Proc. Natl. Acad. Sci. USA</i> 95:9477-9481, National Academy Press (1998)

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	AO						Yes No
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	AR	<u>78</u>	Frenkel, D., <i>et al.</i> , "Generation of auto-antibodies towards Alzheimer's disease vaccination," <i>Vaccine</i> 19:2615-2619, Elsevier Science, Ltd. (March 2001)
	AS	<u>78</u>	International Search Report for International Application No. PCT/IB02/00166 mailed on October 29, 2002.
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